TABLE 13

TABLE GIVING THE VALUES OF A FOR ENGLISH UNITS

r Tj'rtyv*- hi, .beet	Values of B				
	3 Feet	6 Feet	9 Feet	12 Feet	16 Feet
1.0	2.275	2.36	2.40	2.42	2.43
1.5	2.215	2.32	2.38	2.40	2.41
2.0	2.15	2.29	2.35	2.38	2.39
2.5	2.08	2.245	2.32	2.36	2.38
3.0	2.01	2.20	2.30	2.35	2.375

For the case in hand,

Q, = Q(l+orf)= 12 m^3 77X7.606 = 97 m^3 14

451 cu ft X 7.606 = 3430 cu ft

5 = 5 m 00 (16.4 ft) or 4 m 650 (15.25 ft)

Z=1800°C. (3275° F.)

A = 3.53 and 3.48 (approximately for metric units)

= 2.37 and 2.34 (approximately for English units)

The formula may now be written with numerical values, as follows:

For 5=5m 00 (16.4ft),

Or, for English units,

For 5=15.25 ft (4m 65),

15.25^2X1800

, = 2.34^- = 7.11 ft (2m 169).

This will be the distance from the surface of the bath to the center of gravity of the roof segment; it will give an approximate height of the skewbacks above the door sills of 5 ft 4 in (1630 mm) for the wider chamber and 5 ft 7 in (1700 mm) for the narrower chamber.

With a chamber area of 65 m^2 00 (700 sq ft) the chamber volume will be approximately 144 m^3 00 (5087 cu ft) for the